

WHAT IS CLAIMED IS:

1. A thin-film magnetic head comprising:
an insulation gap;
first and second magnetic poles separated with each other by said insulation gap;
a yoke magnetically connected to said first and second magnetic poles;
at least one coil conductor wound around said yoke by a plurality of turns; and
at least one metal layer arranged near said at least one coil conductor in parallel with a plane of said at least one coil conductor.
2. The thin-film magnetic head as claimed in claim 1, wherein said at least one metal layer comprises a metal layer covering an area within which said at least one coil conductor is formed.
3. The thin-film magnetic head as claimed in claim 1, wherein the head comprises trace conductors electrically connected to said at least one coil conductor, and wherein said at least one metal layer comprises a metal layer covering an area within which said at least one coil conductor and said trace conductors are formed.

4. The thin-film magnetic head as claimed in claim 1, wherein said at least one metal layer is not grounded.

5. The thin-film magnetic head as claimed in claim 1, wherein said at least one metal layer is grounded.

6. The thin-film magnetic head as claimed in claim 1, wherein said at least one metal layer consists of a single metal layer arranged at one side of said at least one coil conductor.

7. The thin-film magnetic head as claimed in claim 1, wherein said at least one metal layer consists of a plurality of metal layers arranged at both sides of said at least one coil conductor.

8. The thin-film magnetic head as claimed in claim 1, wherein the head comprises trace conductors electrically connected to said at least one coil conductor, and wherein said trace conductors are arranged so as to not penetrate said at least one metal layer.

9. The thin-film magnetic head as claimed in claim 1, wherein the head comprises trace conductors electrically connected to said at least one coil conductor, and wherein

said trace conductors are arranged so that a part of the trace conductor penetrates said at least one metal layer.

10. The thin-film magnetic head as claimed in claim 1, wherein said at least one coil conductor consists of a single coil conductor.

11. The thin-film magnetic head as claimed in claim 1, wherein said at least one metal layer comprises a metal layer made of a metal material with a high conductivity.